3/19-L

Tues
3/18/92 TOPIC - PARALLEL LINE REV - CYLINDERS
Aim - To create + develop a trunc. cylinder
(F2) DRAW FRONT + TOP
DEFINE ELEMENTS - TOP - (12 @ 30°) on ARC
DLP THRU PTS
2 1/16, 3 1/16, 40°

3/20/92 ~~Tool~~ Aim - 3D MODEL
SET VIEW 1 3-D MODE COORD - VIEW
DRAW CIRCLE (BASE)
CREATE POINT - ROTATE 11 X @ 30°
EXTRUDE CYLINDER - JOIN XY=0 Z=ALT.
VIEW 2 & TRUNCATE
ROTATE @ ELT COMPLIMENT OF A
EDIT, ERASE, EDIT, UNDO
SAVE AS VIEW 7 (PATTERN)

3/26/92
RIGHT SIDE / AUX / 180
DEFINE ELEMENTS - 0°, 90, 180 } DONE
DISPLAY - NEW VIEW - RECENT }
TOP - CREAT 45° + 225° POINTS on CIRCLE
COPY elements TO points BOLT POSITION

348-349 13.9.12

TOPIC - INTERSECTIONS (ELBOW)

AIM - TO DRAW THE DEVELOPMENT OF A 3 PIECE ELBOW

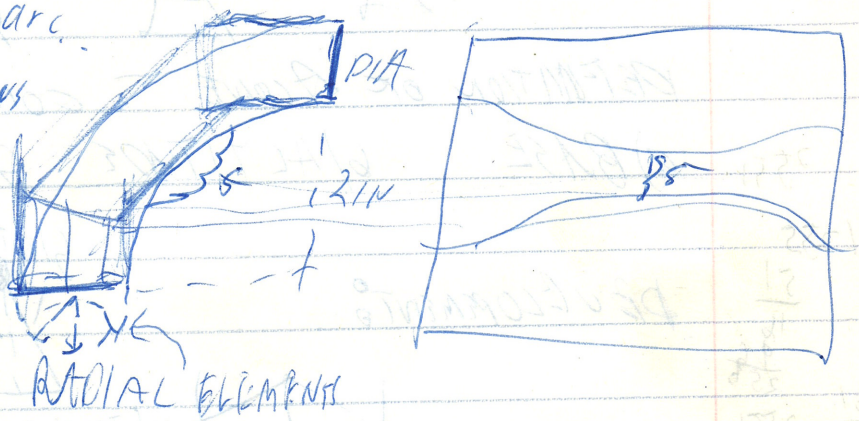
① THROAT RADIUS = 2"

② HEEL RADIUS = 2" + DIAM OF CYLINDER

① DRAW THROAT RADIUS, HEEL RADIUS, HORIZ & TAN

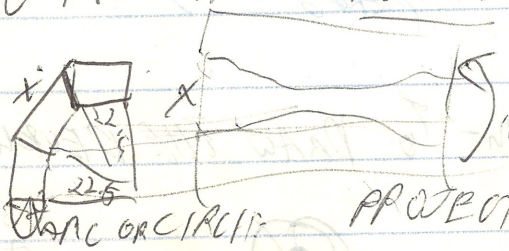
② DRAW 45° TAN TO ARC

③ DRAW INTERSECTIONS



AIM TO DRAW THE 3-PIECE ELBOW USING CADKEY

2 ARCS - 90-110 → HEEL + THROAT RADII



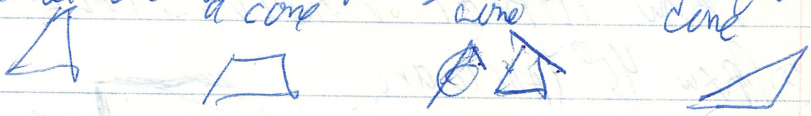
DO THE SAME AS FOR A TRUNCATED CYLINDER.

TOPIC RADIAL LINE DEVELOPMENT

AIM - TO BECOME FAMILIAR WITH THE CONCEPTS USED IN CREATING PATTERNS OF GEOMETRIC SHAPES CONSISTING OF RADIAL ELEMENTS.

THE CONE

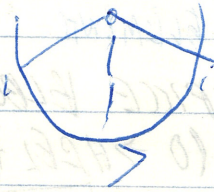
TYPES - Full cone | Frustum of a cone | Truncated cone | Oblique cone



DEFINITION OF A CONE - COMPONENTS

a) BASE b) ALTITUDE c) SLANT HEIGHT

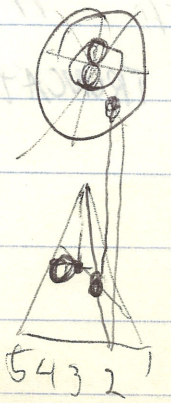
DEVELOPMENT

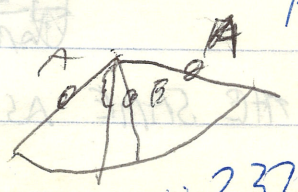


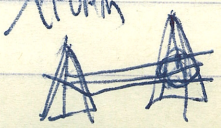
Radius of BASE / Slant length X 360

364
#3/2 °/ZERO°

AIM - TO DRAW THE DEVELOPMENT OF A TRUNC. CONE







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w 2.375 1.309926
H 3.1429 1.175146
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2.533809
2.576215

2551
19/255
19 51
6 16 96
256
361
64
67
2551
256
1364
256
2551
256
75
3915
256
10675=A
3.4375
2
1280

1

Topic of Final Project

① Using the concepts of parallel/radial line development, design an electrical ~~or~~ mechanical or mechanical device.

② Prepare a freehand 3-D sketch of your design.

③ Submit your sketch for approval - Mon, Apr 27, 1992

5/11 Aim: How to layout Composite Orthographic Assembly & Bill of Materials

① Create 11 X 17 sheet.

② Draw a ¼" border.

③ Hold paper with the 17" length horizontal

④ Draw B size border

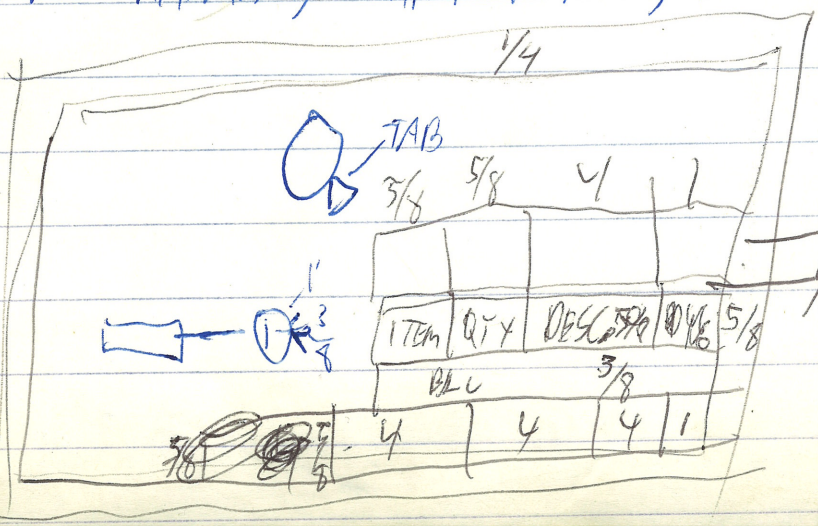
⑤ Follow layout shown to complete drawing & B'll/Mat'l

⑥ Identify the total width, height & depth on the ortho.

⑦ Title: Orthographic Assembly Text: ⅛, Tit 3/16

Include Orth Assm, individual pictorial, isometric, model.

10/7



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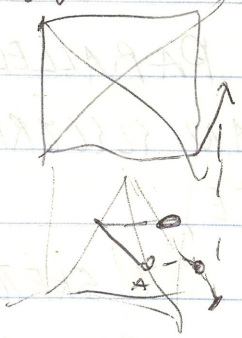
2 TABS

TOPIC - RADIAL LINE DEVELOPMENT

AIM - HOW TO DEVELOP A ROTATED RECT. BASE TRUNC. PYRAMID

364/II

Polygonal



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22.4